

Scaled data based on original data using
LM-79-08 Approved Method: Electrical and Photometric Measurements of Solid-
State Lighting Products

Test Report Prepared for
Cooper Lighting Solutions
(formerly Eaton)

Brand: STREETWORKS

Report Number: P637376

Luminaire Tested: **IFLD-S-SA2B-740-U-44-VI**

Issue Date: 01/17/2023

Test Information

Test Method: LM-79-08
Report Number: P637376
Test Lab: INNOVATION CENTER(G2)
Issue Date: 01/17/2023
Manufacturer: COOPER LIGHTING SOLUTIONS (FORMERLY EATON)
Product Line: STREETWORKS
Catalog Number: IFLD-S-SA2B-740-U-44-VI
Description: Infrastructure Flood – Middle Tier Light Square Luminaire w/ Nema 4 distribution lens and Visor
Light Source: (32) 4000K CCT, 70 CRI LEDs
Ballast/Driver: ELECTRONIC DRIVER

Summary

Lumens per Lamp: N/A
Luminaire Lumens: 11012.2 lumens
Efficiency: N/A
Efficacy: 133.6 lumens/watt
Luminous Opening: Rectangular (W 1' x L: 0.5' x H: 0')
IES Classification: Type V - Short
BUG Rating: B5 - U0 - G1

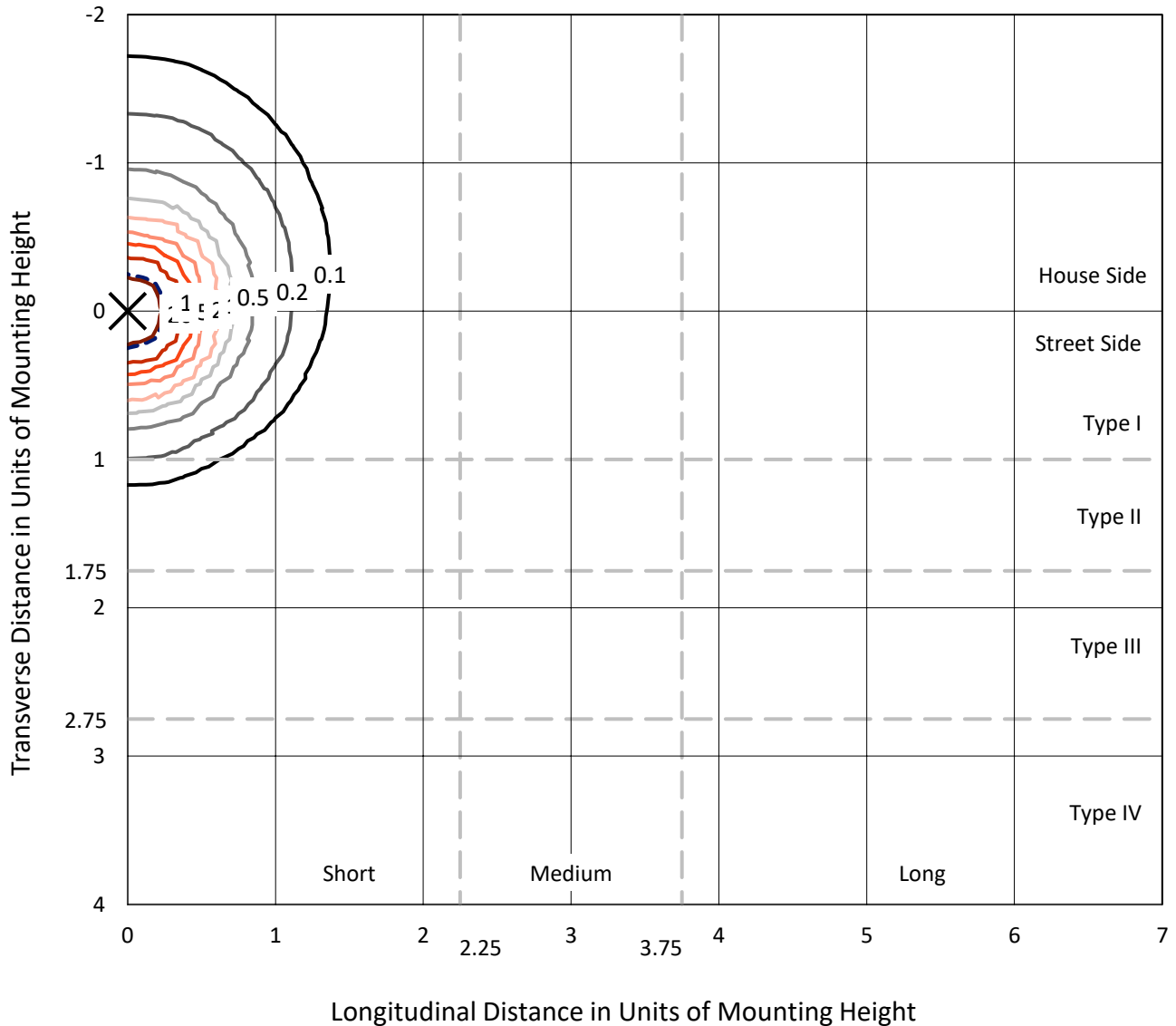
Input Watts (W): 82.4
Input Voltage (V): 120
Input Current (Ain): NR
Voltage Rise (V): NR
Power Factor: NR
Total Harmonic Distortion (THDi): NR
Frequency (hertz): 60
Stabilization Time: NR
Operation Time: NR
Ambient Temperature (°C): NR
Test Distance: 25 FT



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Iso-Footcandle Lines of Horizontal Illumination

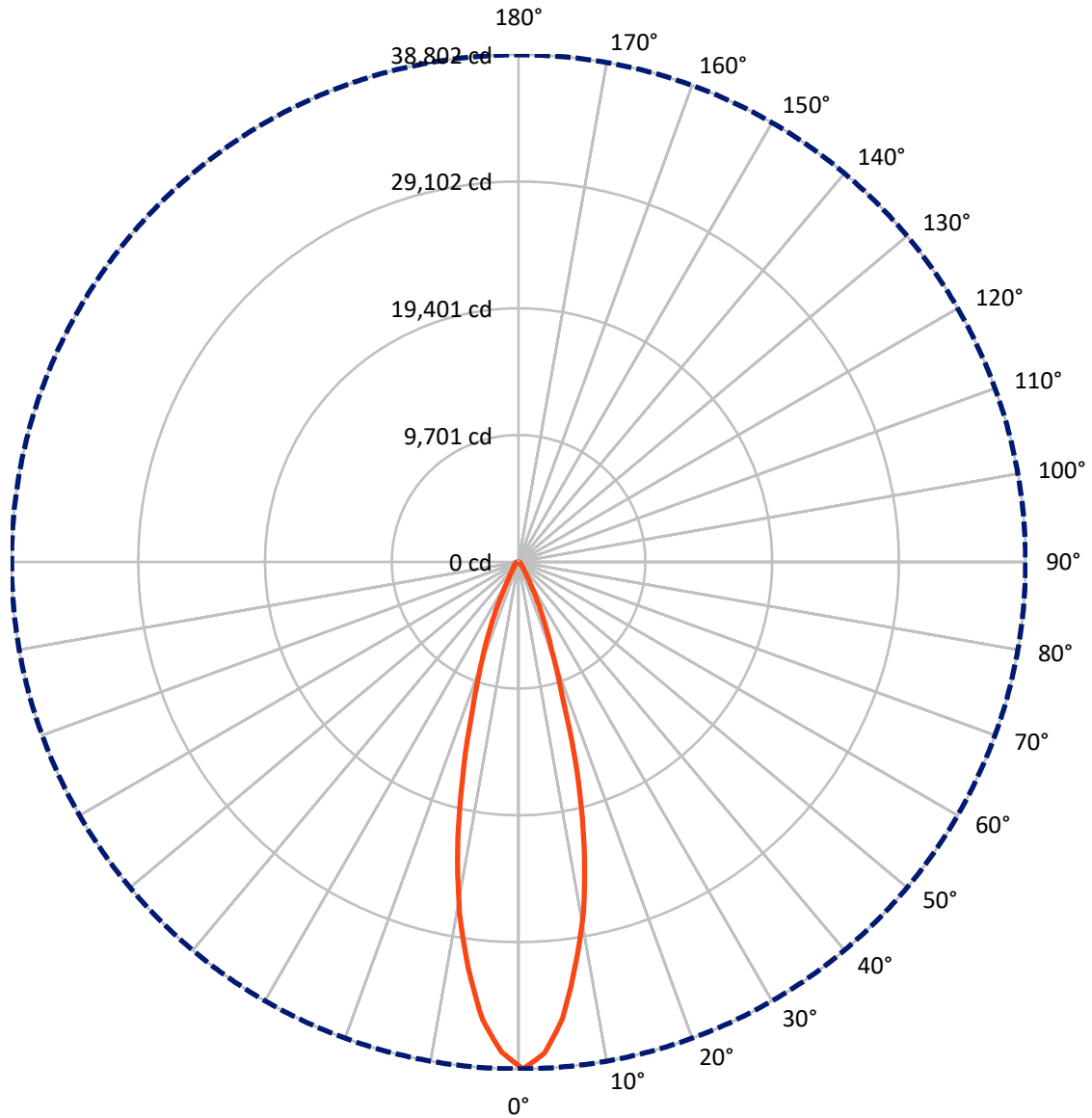
× Max cd
 - - - 1/2 Max cd



Based on 20 foot mounting height. Maximum calculated value = 97 fc
 Type V - Short - N/A

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Luminous Intensity Polar Plot



— Vertical Plane Through 0-Deg Lateral - - - Horizontal Cone Through 0-Deg Vertical

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FLUX DISTRIBUTION:

		Downward	Upward	Total
House Side	Lumens	5806.4	0.0	5806.4
	% Fixture	52.7	0.0	52.7
Street Side	Lumens	5205.8	0.0	5205.8
	% Fixture	47.3	0.0	47.3
Total	Lumens	11012.2	0.0	11012.2
	% Fixture	100.0	0.0	100.0

Coefficient of Utilization

ZONAL LUMENS:

Zone	Lumens	% Fixture
0°-10°	3131.7	28.4
10°-20°	4742.9	43.1
20°-30°	2001.5	18.2
30°-40°	522.0	4.7
40°-50°	264.0	2.4
50°-60°	172.6	1.6
60°-70°	103.4	0.9
70°-80°	54.4	0.5
80°-90°	19.6	0.2
90°-100°	0.0	0.0
100°-110°	0.0	0.0
110°-120°	0.0	0.0
120°-130°	0.0	0.0
130°-140°	0.0	0.0
140°-150°	0.0	0.0
150°-160°	0.0	0.0
160°-170°	0.0	0.0
170°-180°	0.0	0.0
0°-90°	11012.2	100.0
0°-180°	11012.2	100.0

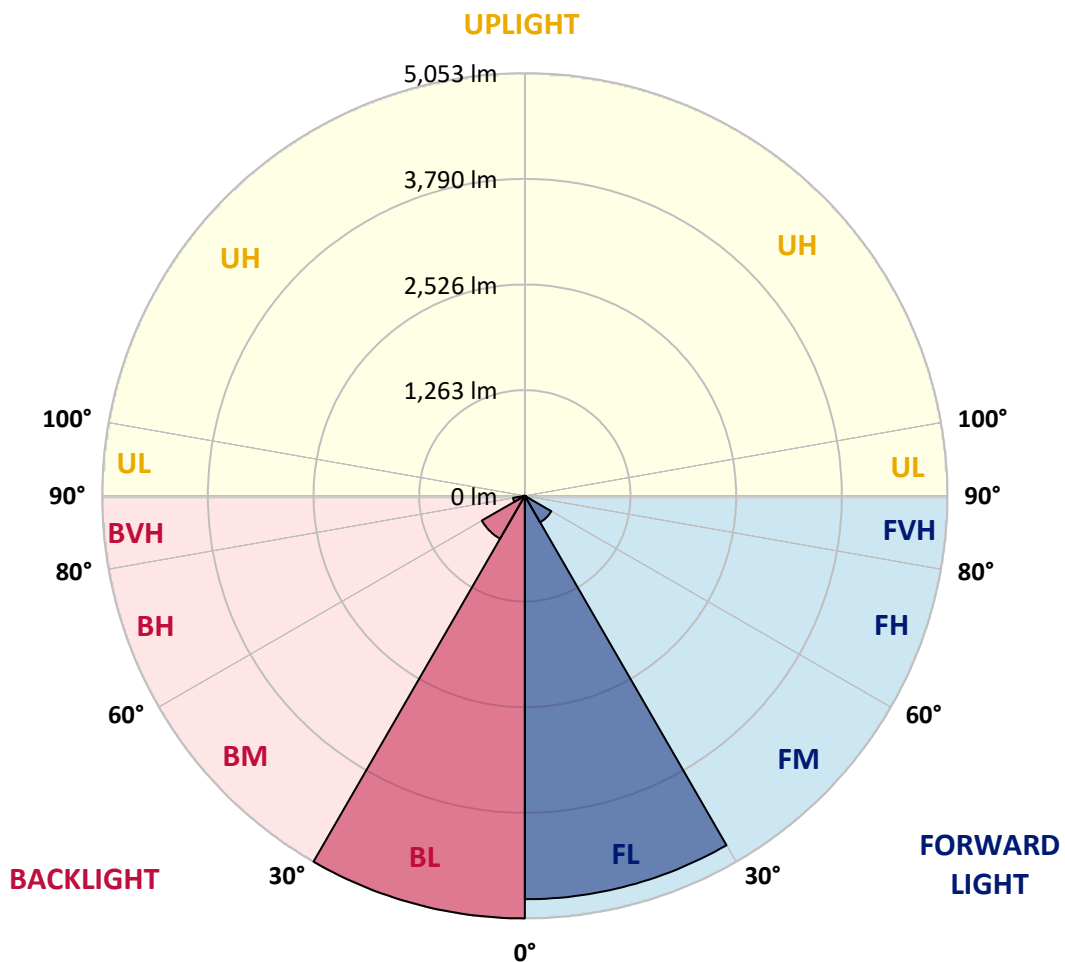


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LUMINAIRE CLASSIFICATION SYSTEM LUMEN TABLE AND BUG RATING:

Zone	Lumens	% Fixture	Zone Rating/Lumen Limit		
			B	U	G
FL (0°-30°)	4823.3	43.8			
FM (30°-60°)	365.3	3.3			
FH (60°-80°)	14.9	0.1			G0/660
FVH (80°-90°)	2.4	0.0			G0/10
BL (0°-30°)	5052.9	45.9	B5		
BM (30°-60°)	593.3	5.4	B1/1000		
BH (60°-80°)	142.9	1.3	B1/500		G0/660
BVH (80°-90°)	17.3	0.2			G1/100
UL (90°-100°)	0.0	0.0		U0/0	
UH (100°-180°)	0.0	0.0		U0/0	

BUG Rating: B5-U0-G1
 Type V Short





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CANDELA DISTRIBUTION (FULL):

	0°	5°	15°	25°	35°	45°	55°	65°	75°	85°
0°	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4
2.5°	37672.1	37693.1	37615.2	37783.4	37652.3	38003.5	37829.1	38101.2	38009.7	38161.8
5°	35099.7	35065.1	35042.9	35303.8	35228.4	35605.5	35364.4	35285.2	35530.1	35485.6
7.5°	31215.3	31306.8	31254.9	31322.9	31361.2	31791.6	31927.6	31821.3	31825.0	31886.8
10°	27233.2	27098.4	26906.7	27034.0	27303.6	27491.6	27416.2	27572.0	27537.4	27684.5
12.5°	22333.4	22439.7	22332.2	22218.4	22689.6	22637.6	22768.7	22854.0	22640.1	23116.2
15°	16822.7	16878.3	17009.4	17000.8	17363.1	17436.1	17418.8	17509.1	17342.1	17421.3
17.5°	10807.4	10995.4	11347.9	11944.0	12614.2	12692.2	12672.4	12598.2	12517.8	12428.7
20°	7259.4	7239.6	7367.0	7541.3	8928.9	9296.2	9285.1	9052.6	8716.2	8651.9
22.5°	5085.3	5122.4	5105.1	5278.2	5565.1	6578.0	6453.0	6216.8	6106.8	6035.0
25°	3345.2	3331.6	3418.2	3470.2	3716.3	3839.9	4277.7	4189.9	4020.5	4039.0
27.5°	2039.3	2056.6	2088.8	2133.3	2307.7	2268.1	2517.9	2551.3	2496.9	2438.8
30°	1251.5	1263.9	1289.9	1322.0	1382.6	1339.3	1408.6	1528.5	1508.8	1468.0
32.5°	849.6	850.8	869.4	881.8	874.3	833.5	855.8	969.6	972.0	968.3
35°	610.9	610.9	628.2	638.1	617.1	583.7	587.4	657.9	688.8	695.0
37.5°	421.7	422.9	452.6	482.3	458.8	450.2	435.3	482.3	531.8	539.2
40°	320.3	319.1	333.9	356.2	358.6	342.6	347.5	377.2	427.9	434.1
42.5°	259.7	260.9	268.4	265.9	267.1	288.1	295.6	309.2	356.2	367.3
45°	218.9	220.1	223.8	211.5	206.5	238.7	248.6	256.0	295.6	309.2
47.5°	180.6	183.0	186.7	173.1	170.7	191.7	209.0	216.4	251.0	265.9
50°	129.9	132.3	145.9	138.5	145.9	150.9	174.4	185.5	209.0	228.8
52.5°	94.0	96.5	100.2	101.4	120.0	122.4	139.7	157.1	168.2	190.5
55°	74.2	76.7	74.2	71.7	87.8	101.4	107.6	126.1	134.8	160.8
57.5°	42.0	44.5	48.2	55.7	58.1	77.9	84.1	100.2	107.6	132.3
60°	7.4	8.7	13.6	33.4	40.8	49.5	63.1	76.7	86.6	103.9
62.5°	1.2	1.2	2.5	7.4	23.5	34.6	45.8	54.4	63.1	79.1
65°	0.0	0.0	1.2	2.5	6.2	19.8	24.7	32.2	43.3	56.9
67.5°	0.0	0.0	1.2	2.5	3.7	7.4	11.1	19.8	24.7	38.3
70°	0.0	0.0	1.2	2.5	3.7	4.9	6.2	8.7	14.8	23.5
72.5°	0.0	0.0	1.2	2.5	3.7	4.9	6.2	7.4	7.4	14.8
75°	0.0	0.0	1.2	2.5	3.7	6.2	7.4	7.4	6.2	6.2
77.5°	0.0	0.0	1.2	2.5	4.9	7.4	8.7	7.4	4.9	4.9
80°	0.0	0.0	2.5	3.7	6.2	8.7	11.1	8.7	4.9	2.5
82.5°	0.0	0.0	2.5	4.9	6.2	9.9	13.6	11.1	4.9	2.5
85°	0.0	0.0	1.2	3.7	7.4	9.9	13.6	9.9	4.9	1.2
87.5°	0.0	0.0	1.2	1.2	2.5	3.7	7.4	6.2	2.5	1.2
90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



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CANDELA DISTRIBUTION (continued):

90°		95°	105°	115°	125°	135°	145°	155°	165°	175°
38802.4	0°	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4	38802.4
37873.6	2.5°	38091.3	38289.2	38330.0	38275.6	38354.7	38212.5	38103.7	37821.7	37652.3
35472.0	5°	35700.8	35671.1	35877.6	35945.6	35937.0	35828.1	35676.0	35505.4	35339.7
31766.9	7.5°	31964.7	32003.1	32191.0	32311.0	32250.4	32114.4	32009.3	31880.6	31769.3
27737.7	10°	27991.2	27727.8	27961.6	27961.6	28123.6	27739.0	27774.8	27450.8	27465.7
23107.6	12.5°	23186.7	23281.9	23320.3	23430.3	23241.1	23037.1	22787.3	22737.8	22583.2
17270.4	15°	17519.0	17791.0	17557.3	17956.7	17763.8	17551.1	17512.8	17129.4	17250.6
12526.4	17.5°	12464.6	12765.1	12859.1	13087.9	12912.3	12786.1	12626.6	12510.4	12501.7
8769.4	20°	8838.6	9140.4	9209.6	9484.2	9464.4	9424.8	9290.0	9142.9	8983.3
5969.5	22.5°	6059.8	6305.9	6535.9	6905.7	6899.5	6783.2	6769.6	6561.9	6565.6
4032.8	25°	4074.9	4254.2	4308.6	4687.1	4729.1	4716.7	4646.2	4453.3	4526.3
2463.5	27.5°	2466.0	2623.0	2807.3	2940.8	3067.0	3047.2	2976.7	2869.1	2822.1
1480.3	30°	1519.9	1590.4	1658.4	1819.2	1894.6	1934.2	1900.8	1800.6	1808.0
974.5	32.5°	995.5	1054.9	1104.4	1205.8	1245.3	1318.3	1304.7	1283.7	1259.0
701.2	35°	725.9	769.2	802.6	849.6	900.3	962.1	972.0	963.4	953.5
541.7	37.5°	554.0	598.6	636.9	656.7	696.3	744.5	771.7	770.5	763.0
441.5	40°	450.2	483.5	518.2	544.1	571.4	607.2	640.6	644.3	644.3
371.0	42.5°	376.0	404.4	439.0	466.2	486.0	519.4	554.0	556.5	554.0
314.1	45°	321.5	346.3	379.7	411.8	427.9	452.6	486.0	493.4	488.5
269.6	47.5°	279.5	301.8	330.2	364.8	382.1	404.4	435.3	444.0	442.7
232.5	50°	239.9	265.9	294.3	322.8	345.0	366.1	395.7	405.6	401.9
197.9	52.5°	211.5	235.0	259.7	290.6	316.6	335.1	358.6	376.0	371.0
167.0	55°	176.8	205.3	231.3	257.2	289.4	309.2	331.4	352.5	347.5
141.0	57.5°	153.3	176.8	206.5	230.0	262.2	285.7	307.9	330.2	329.0
115.0	60°	128.6	153.3	181.8	206.5	236.2	262.2	284.4	309.2	311.6
86.6	62.5°	101.4	131.1	155.8	184.3	213.9	242.4	262.2	286.9	290.6
65.5	65°	76.7	107.6	134.8	162.0	191.7	222.6	239.9	260.9	264.7
48.2	67.5°	56.9	82.9	115.0	139.7	170.7	200.3	216.4	233.7	239.9
29.7	70°	43.3	63.1	96.5	120.0	152.1	175.6	192.9	207.8	212.7
19.8	72.5°	27.2	49.5	77.9	102.6	131.1	152.1	164.5	173.1	180.6
11.1	75°	18.6	38.3	63.1	87.8	108.8	124.9	136.0	143.5	149.6
4.9	77.5°	11.1	29.7	51.9	73.0	86.6	98.9	110.1	115.0	118.7
3.7	80°	6.2	22.3	43.3	59.4	68.0	76.7	85.3	91.5	94.0
2.5	82.5°	3.7	17.3	34.6	45.8	49.5	58.1	66.8	70.5	70.5
1.2	85°	2.5	12.4	23.5	33.4	35.9	42.0	44.5	47.0	49.5
1.2	87.5°	2.5	7.4	14.8	18.6	19.8	22.3	23.5	26.0	28.4
0.0	90°	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0	0.0



180°
38802.4
37527.4
35154.2
31392.1
27321.0
22442.2
17129.4
12271.7
8914.1
6493.9
4411.3
2781.3
1775.9
1250.3
949.8
759.3
636.9
551.6
488.5
440.3
399.5
369.8
350.0
330.2
312.9
293.1
268.4
242.4
215.2
179.3
148.4
117.5
91.5
69.3
48.2
27.2
0.0

(END OF REPORT)